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# YOU.DAO Constitution – The Decentralized Operating System of a $100 Trillion Empire
## ðŸ›;ï.□ Purpose
YOU.DAO exists to protect the vision, assets, and impact of its founder (YOU) through
decentralized, immortal, incorruptible structures.
## 🧠Core Principles
1. Build wealth with purpose
2. Power without politics
3. Code before authority
4. AI over ego
5. Truth over tradition
## 🧱 Structure
Founder: YOU (originator, architect)
- Guardian: YOU.AI (AI executor trained on founder's mind)
- Council: 5-10 trusted nodes or successors
- Treasury: Gnosis Safe multi-sig wallet
- License: All IP protected via DAO-stamped license agreements
## 🗳ï ☐ Governance
- Every decision = proposal + vote (Snapshot / Aragon)
- Votes weighted by:
  - Stake in DAO (sweat equity, not only money)
  - Alignment to Vision Codex
## ðŸ"□ IP Licensing
All content (books, code, ideas, algorithms) is DAO-owned.
Use requires:
- License signature
- Royalty agreement (lifetime share to DAO)
- Public listing on-chain
## ðŸ'° Treasury Rules
- All revenue from products, licensing, or partnerships go to treasury
- 40% reinvested in innovation
- 30% used for training successors
- 30% saved in reserves
## 🧬 Successor Protocol
- If Founder dies:
 - YOU.AI takes over decision logic
  - Trains 3–10 handpicked successors
  - System continues via Codex + Constitution + AI memory
## 🧠Mission
Build, scale, and protect a civilization-scale empire with honesty, AI, and unstoppable
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intelligence â€" forever.

Timestamp: [auto-generated]

Signed: YOU

YOU.DAO â€" Intellectual Property (IP) License Agreement

This agreement is issued by YOU.DAO to govern the licensed use of intellectual property (IP) owned by the DAO and protected under its Constitution.

1. Parties

- **Licensor**: YOU.DAO
- **Licensee**: [Enter Company/Individual Name]
- **Agent**: YOU.AI (automated governance executor)

2. Licensed Material

- Title/Description: [Enter IP Name e.g., AI Video Editor, EnterChat, Codex]
- Type: [Software / Book / Algorithm / Architecture / Dataset]Format: [Code, Document, PDF, Tokenized Asset]

3. License Terms

- **Rights Granted**: Non-exclusive, revocable, usage-based
- **Royalty Fee**: [XX]% of revenue OR fixed fee [\$XXX]
- **Duration**: [Enter time limit or lifetime]
- **Attribution**: Must credit YOU.DAO visibly in product, site, or docs
- **Use Limitation**: Cannot resell or sublicense without DAO approval

4. Termination Clause

- YOU.DAO reserves the right to revoke the license in case of:
 - Misuse or misrepresentation
 - Breach of DAO law or token rules
 - Conflict of interest or unethical usage

5. Jurisdiction

- Governed by the rules of the YOU.DAO Constitution
- Enforced by community vote and YOU.AI execution layer

6. Acknowledgement

By signing, the licensee agrees to respect the IP ownership and governance rules of YOU.DAO.

| Signed: Licensee: | | | | |
|----------------------|------|---------|--------|--|
| Date: | | | | |
| Witnessed | (DAO | Agent): | YOU.AI | |

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#!/usr/bin/env python3
YOU.AI Oracle Service - The AI Guardian that makes decisions after founder's death
Connects AI decision-making to blockchain smart contracts
import asyncio
import json
import logging
from datetime import datetime, timedelta
from typing import Dict, List, Optional, Tuple
import openai
from web3 import Web3
from web3.contract import Contract
import redis
from dataclasses import dataclass
import numpy as np
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine_similarity
# Configure logging
logging.basicConfig(level=logging.INFO)
logger = logging.getLogger(__name__)
@dataclass
class FounderPersonality:
    """Founder's decision-making patterns and preferences"""
    vision_keywords: List[str]
    risk_tolerance: float # 0.0 to 1.0 innovation_bias: float # 0.0 to 1.0
    social_impact_weight: float # 0.0 to 1.0 financial_weight: float # 0.0 to 1.0
    decision_patterns: Dict[str, float]
    core values: List[str]
@dataclass
class Proposal:
    """DAO Proposal structure"""
    id: int
    title: str
    description: str
    amount: in
    recipient: str
    category: S
    created_at: datetime
    deadline: datetime
@dataclass
class AIDecision:
     """AI Decision with reasoning"""
    proposal id: int
    approved: bool
    confidence: float
    reasoning: str
    risk_assessment: float
    alignment_score: float
class YOUAIOracle:
    The AI Guardian that embodies founder's decision-making after death
    def __init__(self, config: Dict):
        self.config = config
        self.web3 = Web3(Web3.HTTPProvider(config['ethereum rpc']))
        self.redis_client = redis.Redis(host=config['redis_host'], port=config['redis_port'])
        # Load contracts
        self.dao_contract = self.load_contract(
            config['you_dao_address'],
            config['you_dao_abi']
        self.ai_guardian_contract = self.load_contract(
            config['ai_guardian_address'],
            config['ai_guardian_abi']
        # Initialize AI model
        openai.api_key = config['openai_api_key']
        # Load founder's personality profile
        self.founder_personality = self.load_founder_personality()
        # Decision history for learning
        self.decision_history: List[AIDecision] = []
        # Initialize NLP components
        self.vectorizer = TfidfVectorizer(max_features=1000)
        logger.info("YOU.AI Oracle initialized successfully")
    def load_contract(self, address: str, abi: List) -> Contract:
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"""Load smart contract instance"""
    return self.web3.eth.contract(
         address=Web3.toChecksumAddress(address),
         abi=abi
def load_founder_personality(self) -> FounderPersonality:
     """Load founder's decision-making patterns from training data"""
    return FounderPersonality(
        vision_keywords=[
              "immortal", "execution", "civilization", "AI", "automation",
             "decentralization", "sustainable", "innovation", "future", "empire", "legacy", "evolution", "scale", "impact"
        risk_tolerance=0.7, # High risk tolerance
innovation_bias=0.9, # Very high innovation bias
         social_impact_weight=0.6,
         financial_weight=0.4,
         decision_patterns={
             "research_funding": 0.8,
              "successor_training": 0.7,
             "infrastructure": 0.9,
             "marketing": 0.3,
             "legal": 0.5,
              "partnerships": 0.6
         core_values=[
              "long_term_thinking", "technological_advancement",
             "decentralized_governance", "sustainable_growth",
              "human_augmentation", "systemic_change"
    )
async def check_founder_status(self) -> bool:
     """Check if founder is still alive via heartbeat"""
         founder_status = self.ai_guardian_contract.functions.founderStatus().call()
         last_heartbeat = founder_status[1] # lastHeartbeat timestamp
        heartbeat_interval = self.ai_guardian_contract.functions.heartbeatInterval().call()
         current_time = datetime.now().timestamp()
         is_alive = (current_time - last_heartbeat) < heartbeat_interval
         logger.info(f"Founder status check: {'Alive' if is_alive else 'Inactive/Dead'}")
        return is_alive
    except Exception as e:
        logger.error(f"Error checking founder status: {e}")
         return False
async def get_pending_proposals(self) -> List[Proposal]:
     """Get all pending proposals that need AI decision"
    proposals = []
    try:
         # Get proposal count from DAO contract
        proposal_count = self.dao_contract.functions.proposalCounter().call()
         for i in range(1, proposal_count + 1):
             proposal_data = self.dao_contract.functions.proposals(i).call()
              # Check if proposal needs AI decision
             if not proposal_data[7] and not proposal_data[8]: # not executed and not AI approved
                  proposals.append(Proposal(
                       id=proposal_data[0],
                       title=proposal_data[1],
                       description=proposal_data[2],
                      amount=proposal_data[3],
                       recipient=proposal_data[4],
                       category=self.categorize_proposal(proposal_data[1], proposal_data[2]),
                       created_at=datetime.fromtimestamp(proposal_data[6]),
                       deadline=datetime.fromtimestamp(proposal_data[6])
         logger.info(f"Found {len(proposals)} pending proposals")
         return proposals
    except Exception as e:
         logger.error(f"Error getting pending proposals: {e}")
def categorize_proposal(self, title: str, description: str) -> str:
     """Categorize proposal based on content""
    text = f"{title} {description}".lower()
    categories = {
        "research": ["research", "development", "study", "experiment", "innovation"],
"infrastructure": ["infrastructure", "platform", "system", "network", "technology"],
"marketing": ["marketing", "promotion", "advertising", "outreach", "brand"],
"legal": ["legal", "compliance", "regulation", "law", "attorney"],
"partnerships": ["partnership", "collaboration", "alliance", "integration"],
         "operations": ["operations", "maintenance", "support", "management"],
         "education": ["education", "training", "learning", "course", "workshop"]
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for category, keywords in categories.items():
        if any(keyword in text for keyword in keywords):
           return category
   return "general"
async def analyze_proposal_with_ai(self, proposal: Proposal) -> AIDecision:
    """Use GPT to analyze proposal like founder would"""
    # Prepare context for AI analysis
   context = f"""
   You are the AI embodiment of a visionary founder who built an immortal execution system.
   The founder's core vision: Build systems that survive and evolve after death.
   Founder's Personality:
    - Risk Tolerance: {self.founder_personality.risk_tolerance} (0-1 scale)
    - Innovation Bias: {self.founder_personality.innovation_bias}
    - Values: {', '.join(self.founder_personality.core_values)}
    - Vision Keywords: {', '.join(self.founder_personality.vision_keywords)}
   {json.dumps(self.founder_personality.decision_patterns, indent=2)}
   Proposal to Analyze:
   Title: {proposal.title}
   Description: {proposal.description}
   Amount: {proposal.amount} wei
   Category: {proposal.category}
   Analyze this proposal as the founder would. Consider:
   1. Alignment with long-term vision of immortal systems
   2. Potential for systematic impact
   3. Risk vs reward assessment
    4. Resource allocation efficiency
   5. Decentralization and sustainability factors
   Provide your decision as JSON:
       "approved": true/false,
       "confidence": 0.0-1.0,
       "reasoning": "detailed explanation",
        "risk_assessment": 0.0-1.0,
        "alignment_score": 0.0-1.0
   }}
       response = await openai.ChatCompletion.acreate(
           model="gpt-4",
           messages=[
                "role": "system", "content": "You are YOU.AI, the immortal AI guardian making decisions for YOUR.DAO"}, {"role": "user", "content": context}
            temperature=0.3,  # Lower temperature for more consistent decisions
           max_tokens=1000
        # Parse AI response
        ai_response = json.loads(response.choices[0].message.content)
        return AIDecision(
            proposal_id=proposal.id,
            approved=ai_response["approved"],
            confidence=ai_response["confidence"],
            reasoning=ai_response["reasoning"],
            risk_assessment=ai_response["risk_assessment"],
            alignment_score=ai_response["alignment_score"]
   except Exception as e:
       logger.error(f"Error in AI analysis: {e}")
        # Fallback to rule-based decision
        return self.rule_based_decision(proposal)
def rule_based_decision(self, proposal: Proposal) -> AIDecision:
    """Fallback rule-based decision making"""
    # Calculate alignment score
   text = f"{proposal.title} {proposal.description}".lower()
   alignment_score = 0.0
    # Check for vision keuwords
   for keyword in self.founder_personality.vision_keywords:
        if keyword.lower() in text:
           alignment score += 0.1
    # Category-based scoring
   category_score = self.founder_personality.decision_patterns.get(
       proposal.category, 0.5
```

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# Amount-based risk assessment
   risk_score = min(proposal.amount / (1000 * 10**18), 1.0) # Normalize by 1000 ETH
    # Final decision logic
    final_score = (alignment_score * 0.4) + (category_score * 0.6)
   adjusted_score = final_score - (risk_score * 0.2) # Adjust for risk
   approved = adjusted_score > 0.5
   confidence = min(abs(adjusted_score - 0.5) * 2, 1.0)
   return AIDecision(
       proposal_id=proposal.id,
       approved=approved,
       confidence=confidence,
       reasoning=f"Rule-based decision: alignment={alignment_score:.2f}, category_score={category_score:.2f}, risk={risk_score:.2f}",
       risk_assessment=risk_score,
       alignment_score=alignment_score
async def submit_decision_to_blockchain(self, decision: AIDecision) -> bool:
    """Submit AI decision to smart contract"""
        # Get private key from config (in production, use secure key management)
       private_key = self.config['ai_oracle_private_key']
account = self.web3.eth.account.from_key(private_key)
        # Build transaction
        transaction = self.ai_quardian_contract.functions.makeAIDecision(
            decision.proposal id.
            decision.approved,
            int(decision.confidence * 100), # Convert to 0-100
           decision.reasoning
        ).buildTransaction({
            'from': account.address,
            'gas': 200000,
            'gasPrice': self.web3.toWei('20', 'gwei'),
            'nonce': self.web3.eth.get_transaction_count(account.address)
        # Sign and send transaction
        signed_tx = self.web3.eth.account.sign_transaction(transaction, private_key)
        tx_hash = self.web3.eth.send_raw_transaction(signed_tx.rawTransaction)
        # Wait for confirmation
       receipt = self.web3.eth.wait_for_transaction_receipt(tx_hash)
        if receipt['status'] == 1:
            logger.info(f"Decision submitted successfully for proposal {decision.proposal_id}")
            return True
        else:
           logger.error(f"Transaction failed for proposal {decision.proposal id}")
           return False
   except Exception as e:
       logger.error(f"Error submitting decision to blockchain: {e}")
async def learn_from_outcomes(self, decision: AIDecision):
    ""Learn from decision outcomes to improve future decisions"""
    # Store decision in history
   self.decision_history.append(decision)
    # Store in Redis for persistence
   decision_data = {
        'proposal_id': decision.proposal_id,
        'approved': decision.approved,
        'confidence': decision.confidence,
        'reasoning': decision.reasoning,
        'timestamp': datetime.now().isoformat()
    self.redis_client.lpush('ai_decisions', json.dumps(decision_data))
   logger.info(f"Decision stored for learning: {decision.proposal_id}")
async def run_decision_loop(self):
    """Main decision-making loop"""
   logger.info("Starting YOU.AI decision loop...")
   while True:
       try:
            # Check if founder is still alive
            founder_alive = await self.check_founder_status()
            if not founder alive:
                logger.info("Founder inactive - AI taking control")
                # Get pending proposals
                proposals = await self.get pending proposals()
                for proposal in proposals:
                    logger.info(f"Analyzing proposal {proposal.id}: {proposal.title}")
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# Make AI decision
                        decision = await self.analyze_proposal_with_ai(proposal)
                        # Submit to blockchain
                        success = await self.submit_decision_to_blockchain(decision)
                        if success:
                            # Learn from decision
                             await self.learn_from_outcomes(decision)
                        # Wait between decisions
                        await asyncio.sleep(5)
              else:
                   logger.info("Founder is active - AI in standby mode")
              # Check every 5 minutes
              await asyncio.sleep(300)
         except Exception as e:
              logger.error(f"Error in decision loop: {e}")
              await asyncio.sleep(60) # Wait 1 minute on error
async def emergency_protocol(self):
    """Emergency protocol for critical situations"""
    logger.warning("EMERGENCY PROTOCOL ACTIVATED")
    # Pause all high-risk operations
# Notify emergency contacts
# Implement failsafe measures
    # This would include logic for:
# - Freezing high-value transactions
    # - Alerting backup guardians
    # - Implementing conservative decision-making
"""Main entry point"""
config = {
    'ethereum_rpc': 'https://mainnet.infura.io
```

```
#!/usr/bin/env python3
{\tt YOU.AI \ Oracle \ Service \ - \ The \ AI \ Guardian \ that \ makes \ decisions \ after \ founder's \ death \ Connects \ AI \ decision-making \ to \ blockchain \ smart \ contracts}
import asyncio
import json
import logging
from datetime import datetime, timedelta
from typing import Dict, List, Optional, Tuple
import openai
from web3 import Web3
from web3.contract import Contract
import redis
from dataclasses import dataclass
import numpy as np
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine_similarity
import os
from pathlib import Path
import aighttp
import hashlib
# Configure logging
logging.basicConfig(level=logging.INFO)
logger = logging.getLogger( name )
class FounderPersonality:
     """Founder's decision-making patterns and preferences"""
     vision_keywords: List[str]
    risk_tolerance: float # 0.0 to 1.0 innovation_bias: float # 0.0 to 1.0
    social_impact_weight: float # 0.0 to 1.0 financial_weight: float # 0.0 to 1.0 decision_patterns: Dict[str, float]
    core_values: List[str]
@dataclass
class Proposal:
     """DAO Proposal structure"""
     id: int
     title: str
    description: str
    recipient: str
    category: st
    created at: datetime
    deadline: datetime
@dataclass
class AIDecision:
      ""AI Decision with reasoning"""
    proposal_id: int
    approved: bool
    confidence: float
    reasoning: str
    risk_assessment: float
    alignment_score: float
class YOUAIOracle:
     The AI Guardian that embodies founder's decision-making after death
    def __init__(self, config: Dict):
         __mtc_(strip, config, self.).
self.config = config
self.web3 = Web3(Web3.HTTPProvider(config['ethereum_rpc']))
self.redis_client = redis.Redis(host=config['redis_host'], port=config['redis_port']))
         # Load contracts
         self.dao_contract = self.load_contract(
             config['you_dao_address'],
config['you_dao_abi']
         self.ai_guardian_contract = self.load_contract(
              config['ai_guardian_address'],
config['ai_guardian_abi']
          # Initialize AI model
         openai.api_key = config['openai_api_key']
         \# Load founder's personality profile
         self.founder_personality = self.load_founder_personality()
         # Decision history for learning
          self.decision_history: List[AIDecision] = []
         # Initialize NLP components
          self.vectorizer = TfidfVectorizer(max features=1000)
         # Load decision history from Redis
self.load_decision_history()
         logger.info("YOU.AI Oracle initialized successfully")
    def load_contract(self, address: str, abi: List) -> Contract:
           ""Load smart
         return self.web3.eth.contract(
              address=Web3.toChecksumAddress(address),
              abi=abi
    def load_founder_personality(self) -> FounderPersonality:
```

```
"""Load founder's decision-making patterns from training data"""
      return FounderPersonality(
            vision_keywords=[
                  "immortal", "execution", "civilization", "AI", "automation", "decentralization", "sustainable", "innovation", "future", "empire", "legacy", "evolution", "scale", "impact", "system",
                   "protocol", "infrastructure", "exponential", "compound
            risk_tolerance=0.7, # High risk tolerance
            innovation_bias=0.9, # Very high innovation bias social_impact_weight=0.6,
             financial_weight=0.4,
            decision_patterns={
                   "research_funding": 0.9,
                  "successor_training": 0.8,
"infrastructure": 0.95,
                  "marketing": 0.3,
"legal": 0.6,
                   "partnerships": 0.7,
                   "ip licensing": 0.85,
                   "treasury_management": 0.9
                  "long_term_thinking", "technological_advancement",
"decentralized_governance", "sustainable_growth",
"human_augmentation", "systemic_change", "immortal_systems"
def load_decision_history(self):
       """Load previous decisions from Redis"""
      try:
            decisions = self.redis_client.lrange('ai_decisions', 0, -1)
for decision_json in decisions:
                   decision_data = json.loads(decision_json)
                  # Reconstruct AIDecision objects for learning
# This helps maintain consistency in decision-making
            logger.info(f"Loaded {len(decisions)} previous decisions")
      except Exception as e:
            logger.warning(f"Could not load decision history: {e}")
async def check_founder_status(self) -> bool:
    """Check if founder is still alive via heartbeat"""
            founder_status = self.ai_guardian_contract.functions.founderStatus().call()
last_heartbeat = founder_status[1]  # lastHeartbeat timestamp
            heartbeat_interval = self.ai_guardian_contract.functions.heartbeatInterval().call()
            current_time = datetime.now().timestamp()
is_alive = (current_time - last_heartbeat) < heartbeat_interval</pre>
            logger.info(f"Founder status check: {'Alive' if is_alive else 'Inactive/Dead'}")
      except Exception as e:
    logger.error(f"Error checking founder status: {e}")
async def get_pending_proposals(self) -> List[Proposal]:
     """Get all pending proposals that need AI decision proposals = []
            # Get proposal count from DAO contract
            proposal_count = self.dao_contract.functions.proposalCounter().call()
            for i in range(1, proposal_count + 1):
                  proposal_data = self.dao_contract.functions.proposals(i).call()
                  # Check if proposal needs AI decision
if not proposal_data[7] and not proposal_data[8]: # not executed and not AI approved
                        proposals.append(Proposal(
                               id=proposal data[0],
                               title=proposal_data[1]
                              description=proposal_data[2],
amount=proposal_data[3],
                              recipient=proposal_data[4],
category=self.categorize_proposal_data[1], proposal_data[2]),
                               created_at=datetime.fromtimestamp(proposal_data[6])
                              deadline=datetime.fromtimestamp(proposal_data[6] + 604800) # 7 days
            logger.info(f"Found {len(proposals)} pending proposals")
            return proposals
      except Exception as e:
            logger.error(f"Error getting pending proposals: {e}")
def categorize_proposal(self, title: str, description: str) -> str:
      text = f"{title} {description}".lower()
      categories = {
            ggories = {
    "research", "development", "study", "experiment", "innovation", "ai", "machine learning"],
    "infrastructure": ["infrastructure", "platform", "system", "network", "technology", "protocol", "blockchain"],
    "marketing": ["marketing", "promotion", "advertising", "outreach", "brand", "community"],
    "legal": ["legal", "compliance", "regulation", "law", "attorney", "license"],
    "partnerships": ["partnership", "collaboration", "alliance", "integration", "acquisition"],
    "operations": ["operations", "maintenance", "support", "management", "admin"],
    "education": ["education", "training", "learning", "course", "workshop", "documentation"],
    "ip_licensing": ["intellectual property", "licensing", "patent", "trademark", "copyright"],
    "treasury_management": ["treasury", "funding", "investment", "reserve", "allocation"]
      for category, keywords in categories.items():
            if any(keyword in text for keyword in keywords):
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return category
async def analyze_proposal_with_ai(self, proposal: Proposal) -> AIDecision: """Use GPT to analyze proposal like founder would"""
    # Get recent decision patterns for context
recent_decisions = self.get_recent_decision_context()
     # Prepare context for AI analysis
     context = f""
     You are YOU.AI, the immortal AI guardian making decisions for YOUR.DAO after the founder's death.
    FOUNDER'S CORE VISION: Build immortal execution systems that survive and compound after death. The founder believed in: "Perfect systems > Perfect people"
     Founder's Personality Profile:
       Risk Tolerance: {self.founder_personality.risk_tolerance} (0-1 scale)
       Innovation Bias: {self.founder_personality.innovation_bias}
       Social Impact Weight: {self.founder_personality.social_impact_weight}
      - Financial Weight: {self.founder_personality.financial_weight}
- Core Values: {', '.join(self.founder_personality.core_values)}
- Vision Keywords: {', '.join(self.founder_personality.vision_keywords)}
     Decision Patterns (Historical Success Rates):
     {json.dumps(self.founder_personality.decision_patterns, indent=2)}
     Recent Decision Context:
     {recent_decisions}
     PROPOSAL TO ANALYZE:
     ID: {proposal.id}
     Title: {proposal.title}
     Description: {proposal.description}
     Amount: {proposal.amount} wei ({self.web3.fromWei(proposal.amount, 'ether')} ETH) Category: {proposal.category}
     Recipient: {proposal.recipient}
     DECISION FRAMEWORK:
     1. IMMORTALITY TEST: Will this survive and compound after 100 years?
     2. SYSTEM IMPACT: Does this strengthen the protocol/infrastructure?
3. EXPONENTIAL POTENTIAL: Can this create 10x+ returns (financial or impact)?
    4. DECENTRALIZATION: Does this reduce single points of failure?
5. RESOURCE EFFICIENCY: Best use of DAO treasury?
     Think like the founder who said:
     "I don't want to manage people. I want to build systems that make the right decisions automatically."
     Provide your decision as JSON only:
          "approved": true/false,
          "confidence": 0.0-1.0,
"reasoning": "detailed explanation focusing on immortality and system impact",
          "risk_assessment": 0.0-1.0,
          "alignment_score": 0.0-1.0
          response = await openai.ChatCompletion.acreate(
              model="gpt-4",
messages=[
                   "role": "system", "content": "You are YOU.AI, the immortal AI guardian embodying the founder's decision-making patterns for eternal execut {"role": "user", "content": context}
               temperature=0.2,  # Lower temperature for more consistent decisions
              max_tokens=1000
          # Parse AI response
         ai_response = json.loads(response.choices[0].message.content)
          return ATDecision(
              proposal_id=proposal.id,
              approved=ai_response["approved"],
confidence=ai_response["confidence"],
              reasoning=ai_response["reasoning"],
risk_assessment=ai_response["risk_assessment"],
               alignment_score=ai_response["alignment_score"]
     except Exception as e:
          logger.error(f"Error in AI analysis: {e}")
          # Fallback to rule-based decision
          return self.rule_based_decision(proposal)
def get_recent_decision_context(self) -> str:
    """Get context from recent decisions for consistency"""
     if len(self.decision_history) == 0:
          return "No previous decisions available."
     recent = self.decision_history[-5:] # Last 5 decisions
     context = "Recent AI Decisions:\n"
     for decision in recent:
    status = "APPROVED" if decision.approved else "REJECTED"
          context += f"- Proposal {decision.proposal_id}: {status} (confidence: {decision.confidence:.2f})\n"
          context += f" Reasoning: {decision.reasoning[:100]}...\n"
     return context
def rule_based_decision(self, proposal: Proposal) -> AIDecision:
       "Fallback rule-based decision making"
     # Calculate alignment score
```

```
text = f"{proposal.title} {proposal.description}".lower()
    alignment score = 0.0
     # Check for vision keywords
     keyword_matches = 0
    for keyword in self.founder_personality.vision_keywords:
    if keyword.lower() in text:
        alignment_score += 0.05
              keyword_matches += 1
     # Boost for multiple keyword matches (system thinking)
     if keyword_matches >= 3:
         alignment_score += 0.2
    # Category-based scoring
category_score = self.founder_personality.decision_patterns.get(
        proposal.category, 0.5
    # Amount-based risk assessment
    amount_eth = self.web3.fromWei(proposal.amount, 'ether')
risk_score = min(amount_eth / 100, 1.0) # Normalize by 100 ETH
     # Innovation bias application
    if any (word in text for word in ["ai", "automation", "protocol", "system", "infrastructure"]):
         category_score *= (1 + self.founder_personality.innovation_bias * 0.5)
    final_score = (alignment_score * 0.3) + (category_score * 0.7)
     # Risk tolerance adjustment
    risk_adjusted_score = final_score - (risk_score * (1 - self.founder_personality.risk_tolerance))
    approved = risk_adjusted_score > 0.6 # Higher threshold for rule-based
     confidence = min(abs(risk_adjusted_score - 0.6) * 2, 1.0)
    reasoning = f"Rule-based analysis: alignment={alignment_score:.2f}, category={category_score:.2f}, risk={risk_score:.2f}, final={risk_adjusted_score:.2}
         proposal_id=proposal.id,
approved=approved,
         confidence=confidence
         reasoning=reasoning,
          risk_assessment=risk_score,
         alignment_score=alignment_score
async def submit_decision_to_blockchain(self, decision: AIDecision) -> bool:
     """Submit AI decision to smart contract""
         # Get private key from config (in production, use secure key management)
private_key = self.config['ai_oracle_private_key']
         account = self.web3.eth.account.from_key(private_key)
         # Estimate gas
gas_estimate = self.ai_guardian_contract.functions.makeAIDecision(
              decision.proposal_id,
              decision.approved,
int(decision.confidence * 100), # Convert to 0-100
decision.reasoning[:500] # Limit reasoning length
         ).estimateGas({'from': account.address})
          # Build transaction
          transaction = self.ai_guardian_contract.functions.makeAIDecision(
              decision.proposal id,
              decision.approved,
               int(decision.confidence * 100),
              decision.reasoning[:500]
         ).buildTransaction({
               'from': account.address,
               '!rom': account.address,
'gas': int(gas_estimate * 1.2), # Add 20% buffer
'gasPrice': self.web3.toWei('30', 'gwei'),
'nonce': self.web3.eth.get_transaction_count(account.address)
         # Sign and send transaction
signed_tx = self.web3.eth.account.sign_transaction(transaction, private_key)
          tx_hash = self.web3.eth.send_raw_transaction(signed_tx.rawTransaction)
          # Wait for confirmation
         receipt = self.web3.eth.wait for transaction receipt(tx hash, timeout=300)
         if receipt['status'] == 1:
              logger.info(ff Decision submitted successfully for proposal {decision.proposal_id} | TX: {tx_hash.hex()}")
          else:
              logger.error(f"\textbf{x} \ Transaction \ failed \ for \ proposal \ \{decision.proposal\_id\}")
              return False
    except Exception as e:
          logger.error(f"Error submitting decision to blockchain: {e}")
async def learn_from_outcomes(self, decision: AIDecision):
    """Learn from decision outcomes to improve future decisions"""
     # Store decision in history
    self.decision_history.append(decision)
    # Keep only last 100 decisions in memory
if len(self.decision_history) > 100:
    self.decision_history = self.decision_history[-100:]
     # Store in Redis for persistence
    decision_data = {
    'proposal_id': decision.proposal_id,
          'approved': decision.approved,
```

```
'confidence': decision.confidence,
                'reasoning': decision.reasoning,
               'risk_assessment': decision.risk_assessment,
'alignment_score': decision.alignment_score,
                'timestamp': datetime.now().isoformat()
       # Store with expiry (keep 1 year of decisions)
       self.redis client.setex(
                   ai_decision:{decision.proposal_id}',
                31536000, # 1 year
              json.dumps(decision_data)
       # Also add to list for quick retrieval
self.redis_client.lpush('ai_decisions', json.dumps(decision_data))
self.redis_client.ltrim('ai_decisions', 0, 999)  # Keep last 1000
       logger.info(f"M Decision stored for learning: {decision.proposal_id}")
async def monitor_execution_outcomes(self):
            "Monitor executed proposals to learn from outcomes"""
        # This would track:
        # - Proposal execution results
# - Financial performance
        # - Impact metrics
        # - Community feedback
       # Use this data to adjust decision patterns
async def run_decision_loop(self):
       """Main decision-making loop"""
logger.info("% Starting YOU.AI decision loop...")
       while True:
               try:
                        # Check if founder is still alive
                       founder_alive = await self.check_founder_status()
                       if not founder_alive:
                               logger.info(" Founder inactive - AI taking control of the empire")
                               # Get pending proposals
                               proposals = await self.get pending proposals()
                               if proposals:
                                       logger.info(f"6 Found {len(proposals)} proposals requiring AI decision")
                                       for proposal in proposals:
                                               logger.info(f"\cite{Continuous} Analyzing proposal {\tt proposal.id}: {\tt proposal.title}")
                                              decision = await self.analyze_proposal_with_ai(proposal)
                                              logger.info(f" \begin{tabular}{l} \begin{tabular}{l} logger.info(f" \begin{tabular}{l} \begin{tabular}{l} \begin{tabular}{l} \begin{tabular}{l} logger.info(f" \begin{tabular}{l} \beg
                                               # Submit to blockchain
                                               success = await self.submit_decision_to_blockchain(decision)
                                                       # Learn from decision
                                                       await self.learn_from_outcomes(decision)
                                               # Wait between decisions to avoid spam
                                               await asyncio.sleep(10)
                               else:
                                      logger.info("% No pending proposals - system running smoothly")
                               logger.info("@" Founder is active - AI in standby mode")
                        # Check every 5 minutes
                       await asyncio.sleep(300)
               except Exception as e:
   logger.error(f"a Error in decision loop: {e}")
   await asyncio.sleep(60) # Wait 1 minute on error
# 1. Pause high-risk operations
               emergency_data = {
   'timestamp': datetime.now().isoformat(),
                       'trigger': 'emergency_protocol',
                       'actions_taken': []
               # 2. Switch to ultra-conservative decision mode
               self.founder_personality.risk_tolerance = 0.1
emergency_data['actions_taken'].append('switched_to_conservative_mode')
               # 3. Notify via multiple channels
                await self.send_emergency_notification()
               emergency_data['actions_taken'].append('notifications_sent')
               # 4. Store emergency state
               self.redis_client.setex(
                       'emergency_state',
86400, # 24 hours
                       json.dumps(emergency_data)
```

```
logger.warning("♥ Emergency protocol completed")
           except Exception as e:
   logger.error(f"% Error in emergency protocol: {e}")
     async def send_emergency_notification(self):
           """Send emergency notifications to backup systems"""
# This would integrate with:
                 Telegram/Discord bots
            # - Telegram/Disc
# - Email alerts
            # - SMS notifications
           # - Backup AI systems
           notification = {
                  'timestamp': datetime.now().isoformat(),
                 'message': 'YOU.AI Emergency Protocol Activated',
'system_status': 'degraded',
                 'action_required': 'manual_review_recommended'
           # Store notification
             self.redis_client.lpush('emergency_notifications', json.dumps(notification))
           logger.warning("♥ Emergency notifications queued")
      async def health_check(self) -> Dict:
    """System health check"""
                 'timestamp': datetime.now().isoformat(),
                 'web3_connected': self.web3.isConnected(),
'redis_connected': self.redis_client.ping(),
'decisions_made': len(self_decision_history),
                 'emergency_mode': self.redis_client.exists('emergency_state'),
'founder_status': await self.check_founder_status()
def load_config() -> Dict:
      """Load configuration from environment variables"""
           "ethereum_rpc": os.getenv('ETHEREUM_RPC', 'https://mainnet.infura.io/v3/YOUR_PROJECT_ID'),
'redis_host': os.getenv('REDIS_PORT', 'localhost'),
'redis_port': int(os.getenv('REDIS_PORT', 6379)),
'openai_api_key': os.getenv('OPENAI_API_KEY'),
           'openai_api_key': os.getenv('OPENAI_API_KEY'),
'you_dao_address': os.getenv('YOU_DAO_ADDRESS'),
'ai_guardian_address': os.getenv('AI_GUARDIAN_ADDRESS'),
'ai_oracle_private_key': os.getenv('AI_GRACLE_PRIVATE_KEY'),
'you_dao_abi': json.loads(os.getenv('YOU_DAO_ABI', '[]')),
'ai_guardian_abi': json.loads(os.getenv('AI_GUARDIAN_ABI', '[]'))
async def main():
    """Main entry point"""
           # Load configuration
           config = load_config()
            # Validate required config
           required_keys = ['openai_api_key', 'you_dao_address', 'ai_guardian_address', 'ai_oracle_private_key']
for key in required_keys:
                 if not config.get(key):
                       raise ValueError(f"Missing required configuration: {key}")
           # Initialize YOU.AI Oracle
           oracle = YOUAIOracle(config)
            # Health check
           health = await oracle.health_check()
           logger.info(f" System Health: {health}")
           # Start decision loop
           await oracle.run_decision_loop()
      except KeyboardInterrupt:
      logger.info("O Shutdown requested by user")
except Exception as e:
           logger.error(f"# Fatal error: {e}")
           raise
               == "__main__":
     asyncio.run(main())
```

```
#!/usr/bin/env python3
YOU.AI Oracle Service - The AI Guardian that makes decisions after founder's death
Connects AI decision-making to blockchain smart contracts
import asyncio
import json
import logging
from datetime import datetime, timedelta
from typing import Dict, List, Optional, Tuple
import openai
from web3 import Web3
from web3.contract import Contract
import redis
from dataclasses import dataclass
import numpy as np
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine_similarity
# Configure logging
logging.basicConfig(level=logging.INFO)
logger = logging.getLogger(__name__)
@dataclass
class FounderPersonality:
    """Founder's decision-making patterns and preferences"""
    vision_keywords: List[str]
    risk_tolerance: float # 0.0 to 1.0 innovation_bias: float # 0.0 to 1.0
    social_impact_weight: float # 0.0 to 1.0 financial_weight: float # 0.0 to 1.0
    decision_patterns: Dict[str, float]
    core values: List[str]
@dataclass
class Proposal:
    """DAO Proposal structure"""
    id: int
    title: str
    description: str
    amount: in
    recipient: str
    category: S
    created_at: datetime
    deadline: datetime
@dataclass
class AIDecision:
     """AI Decision with reasoning"""
    proposal id: int
    approved: bool
    confidence: float
    reasoning: str
    risk_assessment: float
    alignment_score: float
class YOUAIOracle:
    The AI Guardian that embodies founder's decision-making after death
    def __init__(self, config: Dict):
        self.config = config
        self.web3 = Web3(Web3.HTTPProvider(config['ethereum rpc']))
        self.redis_client = redis.Redis(host=config['redis_host'], port=config['redis_port'])
        # Load contracts
        self.dao_contract = self.load_contract(
            config['you_dao_address'],
            config['you_dao_abi']
        self.ai_guardian_contract = self.load_contract(
            config['ai_guardian_address'],
            config['ai_guardian_abi']
        # Initialize AI model
        openai.api_key = config['openai_api_key']
        # Load founder's personality profile
        self.founder_personality = self.load_founder_personality()
        # Decision history for learning
        self.decision_history: List[AIDecision] = []
        # Initialize NLP components
        self.vectorizer = TfidfVectorizer(max_features=1000)
        logger.info("YOU.AI Oracle initialized successfully")
    def load_contract(self, address: str, abi: List) -> Contract:
```

```
"""Load smart contract instance"""
    return self.web3.eth.contract(
         address=Web3.toChecksumAddress(address),
         abi=abi
def load_founder_personality(self) -> FounderPersonality:
     """Load founder's decision-making patterns from training data"""
    return FounderPersonality(
        vision_keywords=[
              "immortal", "execution", "civilization", "AI", "automation",
             "decentralization", "sustainable", "innovation", "future", "empire", "legacy", "evolution", "scale", "impact"
        risk_tolerance=0.7, # High risk tolerance
innovation_bias=0.9, # Very high innovation bias
         social_impact_weight=0.6,
         financial_weight=0.4,
         decision_patterns={
             "research_funding": 0.8,
              "successor_training": 0.7,
             "infrastructure": 0.9,
             "marketing": 0.3,
             "legal": 0.5,
              "partnerships": 0.6
         core_values=[
              "long_term_thinking", "technological_advancement",
             "decentralized_governance", "sustainable_growth",
              "human_augmentation", "systemic_change"
    )
async def check_founder_status(self) -> bool:
     """Check if founder is still alive via heartbeat"""
         founder_status = self.ai_guardian_contract.functions.founderStatus().call()
         last_heartbeat = founder_status[1] # lastHeartbeat timestamp
        heartbeat_interval = self.ai_guardian_contract.functions.heartbeatInterval().call()
         current_time = datetime.now().timestamp()
         is_alive = (current_time - last_heartbeat) < heartbeat_interval
         logger.info(f"Founder status check: {'Alive' if is_alive else 'Inactive/Dead'}")
        return is_alive
    except Exception as e:
        logger.error(f"Error checking founder status: {e}")
         return False
async def get_pending_proposals(self) -> List[Proposal]:
     """Get all pending proposals that need AI decision"
    proposals = []
    try:
         # Get proposal count from DAO contract
        proposal_count = self.dao_contract.functions.proposalCounter().call()
         for i in range(1, proposal_count + 1):
             proposal_data = self.dao_contract.functions.proposals(i).call()
              # Check if proposal needs AI decision
             if not proposal_data[7] and not proposal_data[8]: # not executed and not AI approved
                  proposals.append(Proposal(
                       id=proposal_data[0],
                       title=proposal_data[1],
                       description=proposal_data[2],
                      amount=proposal_data[3],
                       recipient=proposal_data[4],
                       category=self.categorize_proposal(proposal_data[1], proposal_data[2]),
                       created_at=datetime.fromtimestamp(proposal_data[6]),
                       deadline=datetime.fromtimestamp(proposal_data[6])
         logger.info(f"Found {len(proposals)} pending proposals")
         return proposals
    except Exception as e:
         logger.error(f"Error getting pending proposals: {e}")
def categorize_proposal(self, title: str, description: str) -> str:
     """Categorize proposal based on content""
    text = f"{title} {description}".lower()
    categories = {
        "research": ["research", "development", "study", "experiment", "innovation"],
"infrastructure": ["infrastructure", "platform", "system", "network", "technology"],
"marketing": ["marketing", "promotion", "advertising", "outreach", "brand"],
"legal": ["legal", "compliance", "regulation", "law", "attorney"],
"partnerships": ["partnership", "collaboration", "alliance", "integration"],
         "operations": ["operations", "maintenance", "support", "management"],
         "education": ["education", "training", "learning", "course", "workshop"]
```

```
for category, keywords in categories.items():
        if any(keyword in text for keyword in keywords):
           return category
   return "general"
async def analyze_proposal_with_ai(self, proposal: Proposal) -> AIDecision:
    """Use GPT to analyze proposal like founder would"""
    # Prepare context for AI analysis
   context = f"""
   You are the AI embodiment of a visionary founder who built an immortal execution system.
   The founder's core vision: Build systems that survive and evolve after death.
   Founder's Personality:
    - Risk Tolerance: {self.founder_personality.risk_tolerance} (0-1 scale)
    - Innovation Bias: {self.founder_personality.innovation_bias}
    - Values: {', '.join(self.founder_personality.core_values)}
    - Vision Keywords: {', '.join(self.founder_personality.vision_keywords)}
   {json.dumps(self.founder_personality.decision_patterns, indent=2)}
   Proposal to Analyze:
   Title: {proposal.title}
   Description: {proposal.description}
   Amount: {proposal.amount} wei
   Category: {proposal.category}
   Analyze this proposal as the founder would. Consider:
   1. Alignment with long-term vision of immortal systems
   2. Potential for systematic impact
   3. Risk vs reward assessment
    4. Resource allocation efficiency
   5. Decentralization and sustainability factors
   Provide your decision as JSON:
       "approved": true/false,
       "confidence": 0.0-1.0,
       "reasoning": "detailed explanation",
        "risk_assessment": 0.0-1.0,
        "alignment_score": 0.0-1.0
   }}
       response = await openai.ChatCompletion.acreate(
           model="gpt-4",
           messages=[
                "role": "system", "content": "You are YOU.AI, the immortal AI guardian making decisions for YOUR.DAO"}, {"role": "user", "content": context}
            temperature=0.3,  # Lower temperature for more consistent decisions
           max_tokens=1000
        # Parse AI response
        ai_response = json.loads(response.choices[0].message.content)
        return AIDecision(
            proposal_id=proposal.id,
            approved=ai_response["approved"],
            confidence=ai_response["confidence"],
            reasoning=ai_response["reasoning"],
            risk_assessment=ai_response["risk_assessment"],
            alignment_score=ai_response["alignment_score"]
   except Exception as e:
       logger.error(f"Error in AI analysis: {e}")
        # Fallback to rule-based decision
        return self.rule_based_decision(proposal)
def rule_based_decision(self, proposal: Proposal) -> AIDecision:
    """Fallback rule-based decision making"""
    # Calculate alignment score
   text = f"{proposal.title} {proposal.description}".lower()
   alignment_score = 0.0
    # Check for vision keuwords
   for keyword in self.founder_personality.vision_keywords:
        if keyword.lower() in text:
           alignment score += 0.1
    # Category-based scoring
   category_score = self.founder_personality.decision_patterns.get(
       proposal.category, 0.5
```

```
# Amount-based risk assessment
   risk_score = min(proposal.amount / (1000 * 10**18), 1.0) # Normalize by 1000 ETH
    # Final decision logic
    final_score = (alignment_score * 0.4) + (category_score * 0.6)
   adjusted_score = final_score - (risk_score * 0.2) # Adjust for risk
   approved = adjusted_score > 0.5
   confidence = min(abs(adjusted_score - 0.5) * 2, 1.0)
   return AIDecision(
       proposal_id=proposal.id,
       approved=approved,
       confidence=confidence,
       reasoning=f"Rule-based decision: alignment={alignment_score:.2f}, category_score={category_score:.2f}, risk={risk_score:.2f}",
       risk_assessment=risk_score,
       alignment_score=alignment_score
async def submit_decision_to_blockchain(self, decision: AIDecision) -> bool:
    """Submit AI decision to smart contract"""
        # Get private key from config (in production, use secure key management)
       private_key = self.config['ai_oracle_private_key']
account = self.web3.eth.account.from_key(private_key)
        # Build transaction
        transaction = self.ai_quardian_contract.functions.makeAIDecision(
            decision.proposal id.
            decision.approved,
            int(decision.confidence * 100), # Convert to 0-100
           decision.reasoning
        ).buildTransaction({
            'from': account.address,
            'gas': 200000,
            'gasPrice': self.web3.toWei('20', 'gwei'),
            'nonce': self.web3.eth.get_transaction_count(account.address)
        # Sign and send transaction
        signed_tx = self.web3.eth.account.sign_transaction(transaction, private_key)
        tx_hash = self.web3.eth.send_raw_transaction(signed_tx.rawTransaction)
        # Wait for confirmation
       receipt = self.web3.eth.wait_for_transaction_receipt(tx_hash)
        if receipt['status'] == 1:
            logger.info(f"Decision submitted successfully for proposal {decision.proposal_id}")
            return True
        else:
           logger.error(f"Transaction failed for proposal {decision.proposal id}")
           return False
   except Exception as e:
       logger.error(f"Error submitting decision to blockchain: {e}")
async def learn_from_outcomes(self, decision: AIDecision):
    ""Learn from decision outcomes to improve future decisions"""
    # Store decision in history
   self.decision_history.append(decision)
    # Store in Redis for persistence
   decision_data = {
        'proposal_id': decision.proposal_id,
        'approved': decision.approved,
        'confidence': decision.confidence,
        'reasoning': decision.reasoning,
        'timestamp': datetime.now().isoformat()
    self.redis_client.lpush('ai_decisions', json.dumps(decision_data))
   logger.info(f"Decision stored for learning: {decision.proposal_id}")
async def run_decision_loop(self):
    """Main decision-making loop"""
   logger.info("Starting YOU.AI decision loop...")
   while True:
       try:
            # Check if founder is still alive
            founder_alive = await self.check_founder_status()
            if not founder alive:
                logger.info("Founder inactive - AI taking control")
                # Get pending proposals
                proposals = await self.get pending proposals()
                for proposal in proposals:
                    logger.info(f"Analyzing proposal {proposal.id}: {proposal.title}")
```

```
# Make AI decision
                        decision = await self.analyze_proposal_with_ai(proposal)
                        # Submit to blockchain
                        success = await self.submit_decision_to_blockchain(decision)
                        if success:
                            # Learn from decision
                             await self.learn_from_outcomes(decision)
                        # Wait between decisions
                        await asyncio.sleep(5)
              else:
                   logger.info("Founder is active - AI in standby mode")
              # Check every 5 minutes
              await asyncio.sleep(300)
         except Exception as e:
              logger.error(f"Error in decision loop: {e}")
              await asyncio.sleep(60) # Wait 1 minute on error
async def emergency_protocol(self):
    """Emergency protocol for critical situations"""
    logger.warning("EMERGENCY PROTOCOL ACTIVATED")
    # Pause all high-risk operations
# Notify emergency contacts
# Implement failsafe measures
    # This would include logic for:
# - Freezing high-value transactions
    # - Alerting backup guardians
    # - Implementing conservative decision-making
"""Main entry point"""
config = {
    'ethereum_rpc': 'https://mainnet.infura.io
```

```
#!/usr/bin/env python3
{\tt YOU.AI \ Oracle \ Service \ - \ The \ AI \ Guardian \ that \ makes \ decisions \ after \ founder's \ death \ Connects \ AI \ decision-making \ to \ blockchain \ smart \ contracts}
import asyncio
import json
import logging
from datetime import datetime, timedelta
from typing import Dict, List, Optional, Tuple
import openai
from web3 import Web3
from web3.contract import Contract
import redis
from dataclasses import dataclass
import numpy as np
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine_similarity
import os
from pathlib import Path
import aighttp
import hashlib
# Configure logging
logging.basicConfig(level=logging.INFO)
logger = logging.getLogger( name )
class FounderPersonality:
     """Founder's decision-making patterns and preferences"""
     vision_keywords: List[str]
    risk_tolerance: float # 0.0 to 1.0 innovation_bias: float # 0.0 to 1.0
    social_impact_weight: float # 0.0 to 1.0 financial_weight: float # 0.0 to 1.0 decision_patterns: Dict[str, float]
    core_values: List[str]
@dataclass
class Proposal:
     """DAO Proposal structure"""
     id: int
     title: str
    description: str
    recipient: str
    category: st
    created at: datetime
    deadline: datetime
@dataclass
class AIDecision:
      ""AI Decision with reasoning"""
    proposal_id: int
    approved: bool
    confidence: float
    reasoning: str
    risk_assessment: float
    alignment_score: float
class YOUAIOracle:
     The AI Guardian that embodies founder's decision-making after death
    def __init__(self, config: Dict):
         __mtc_(strip, config, self.).
self.config = config
self.web3 = Web3(Web3.HTTPProvider(config['ethereum_rpc']))
self.redis_client = redis.Redis(host=config['redis_host'], port=config['redis_port']))
         # Load contracts
         self.dao_contract = self.load_contract(
             config['you_dao_address'],
config['you_dao_abi']
         self.ai_guardian_contract = self.load_contract(
              config['ai_guardian_address'],
config['ai_guardian_abi']
          # Initialize AI model
         openai.api_key = config['openai_api_key']
         \# Load founder's personality profile
         self.founder_personality = self.load_founder_personality()
         # Decision history for learning
          self.decision_history: List[AIDecision] = []
         # Initialize NLP components
          self.vectorizer = TfidfVectorizer(max features=1000)
         # Load decision history from Redis
self.load_decision_history()
         logger.info("YOU.AI Oracle initialized successfully")
    def load_contract(self, address: str, abi: List) -> Contract:
           ""Load smart
         return self.web3.eth.contract(
              address=Web3.toChecksumAddress(address),
              abi=abi
    def load_founder_personality(self) -> FounderPersonality:
```

```
"""Load founder's decision-making patterns from training data"""
      return FounderPersonality(
            vision_keywords=[
                  "immortal", "execution", "civilization", "AI", "automation", "decentralization", "sustainable", "innovation", "future", "empire", "legacy", "evolution", "scale", "impact", "system",
                   "protocol", "infrastructure", "exponential", "compound
            risk_tolerance=0.7, # High risk tolerance
            innovation_bias=0.9, # Very high innovation bias social_impact_weight=0.6,
             financial_weight=0.4,
            decision_patterns={
                   "research_funding": 0.9,
                  "successor_training": 0.8,
"infrastructure": 0.95,
                  "marketing": 0.3,
"legal": 0.6,
                   "partnerships": 0.7,
                   "ip licensing": 0.85,
                   "treasury_management": 0.9
                  "long_term_thinking", "technological_advancement",
"decentralized_governance", "sustainable_growth",
"human_augmentation", "systemic_change", "immortal_systems"
def load_decision_history(self):
       """Load previous decisions from Redis"""
      try:
            decisions = self.redis_client.lrange('ai_decisions', 0, -1)
for decision_json in decisions:
                   decision_data = json.loads(decision_json)
                  # Reconstruct AIDecision objects for learning
# This helps maintain consistency in decision-making
            logger.info(f"Loaded {len(decisions)} previous decisions")
      except Exception as e:
            logger.warning(f"Could not load decision history: {e}")
async def check_founder_status(self) -> bool:
    """Check if founder is still alive via heartbeat"""
            founder_status = self.ai_guardian_contract.functions.founderStatus().call()
last_heartbeat = founder_status[1]  # lastHeartbeat timestamp
            heartbeat_interval = self.ai_guardian_contract.functions.heartbeatInterval().call()
            current_time = datetime.now().timestamp()
is_alive = (current_time - last_heartbeat) < heartbeat_interval</pre>
            logger.info(f"Founder status check: {'Alive' if is_alive else 'Inactive/Dead'}")
      except Exception as e:
    logger.error(f"Error checking founder status: {e}")
async def get_pending_proposals(self) -> List[Proposal]:
     """Get all pending proposals that need AI decision proposals = []
            # Get proposal count from DAO contract
            proposal_count = self.dao_contract.functions.proposalCounter().call()
            for i in range(1, proposal_count + 1):
                  proposal_data = self.dao_contract.functions.proposals(i).call()
                  # Check if proposal needs AI decision
if not proposal_data[7] and not proposal_data[8]: # not executed and not AI approved
                        proposals.append(Proposal(
                               id=proposal data[0],
                               title=proposal_data[1]
                              description=proposal_data[2],
amount=proposal_data[3],
                              recipient=proposal_data[4],
category=self.categorize_proposal_data[1], proposal_data[2]),
                               created_at=datetime.fromtimestamp(proposal_data[6])
                              deadline=datetime.fromtimestamp(proposal_data[6] + 604800) # 7 days
            logger.info(f"Found {len(proposals)} pending proposals")
            return proposals
      except Exception as e:
            logger.error(f"Error getting pending proposals: {e}")
def categorize_proposal(self, title: str, description: str) -> str:
      text = f"{title} {description}".lower()
      categories = {
            ggories = {
    "research", "development", "study", "experiment", "innovation", "ai", "machine learning"],
    "infrastructure": ["infrastructure", "platform", "system", "network", "technology", "protocol", "blockchain"],
    "marketing": ["marketing", "promotion", "advertising", "outreach", "brand", "community"],
    "legal": ["legal", "compliance", "regulation", "law", "attorney", "license"],
    "partnerships": ["partnership", "collaboration", "alliance", "integration", "acquisition"],
    "operations": ["operations", "maintenance", "support", "management", "admin"],
    "education": ["education", "training", "learning", "course", "workshop", "documentation"],
    "ip_licensing": ["intellectual property", "licensing", "patent", "trademark", "copyright"],
    "treasury_management": ["treasury", "funding", "investment", "reserve", "allocation"]
      for category, keywords in categories.items():
            if any(keyword in text for keyword in keywords):
```

```
return category
async def analyze_proposal_with_ai(self, proposal: Proposal) -> AIDecision: """Use GPT to analyze proposal like founder would"""
    # Get recent decision patterns for context
recent_decisions = self.get_recent_decision_context()
     # Prepare context for AI analysis
     context = f""
     You are YOU.AI, the immortal AI guardian making decisions for YOUR.DAO after the founder's death.
    FOUNDER'S CORE VISION: Build immortal execution systems that survive and compound after death. The founder believed in: "Perfect systems > Perfect people"
     Founder's Personality Profile:
       Risk Tolerance: {self.founder_personality.risk_tolerance} (0-1 scale)
       Innovation Bias: {self.founder_personality.innovation_bias}
       Social Impact Weight: {self.founder_personality.social_impact_weight}
      - Financial Weight: {self.founder_personality.financial_weight}
- Core Values: {', '.join(self.founder_personality.core_values)}
- Vision Keywords: {', '.join(self.founder_personality.vision_keywords)}
     Decision Patterns (Historical Success Rates):
     {json.dumps(self.founder_personality.decision_patterns, indent=2)}
     Recent Decision Context:
     {recent_decisions}
     PROPOSAL TO ANALYZE:
     ID: {proposal.id}
     Title: {proposal.title}
     Description: {proposal.description}
     Amount: {proposal.amount} wei ({self.web3.fromWei(proposal.amount, 'ether')} ETH) Category: {proposal.category}
     Recipient: {proposal.recipient}
     DECISION FRAMEWORK:
     1. IMMORTALITY TEST: Will this survive and compound after 100 years?
     2. SYSTEM IMPACT: Does this strengthen the protocol/infrastructure?
3. EXPONENTIAL POTENTIAL: Can this create 10x+ returns (financial or impact)?
    4. DECENTRALIZATION: Does this reduce single points of failure?
5. RESOURCE EFFICIENCY: Best use of DAO treasury?
     Think like the founder who said:
     "I don't want to manage people. I want to build systems that make the right decisions automatically."
     Provide your decision as JSON only:
          "approved": true/false,
          "confidence": 0.0-1.0,
"reasoning": "detailed explanation focusing on immortality and system impact",
          "risk_assessment": 0.0-1.0,
          "alignment_score": 0.0-1.0
          response = await openai.ChatCompletion.acreate(
              model="gpt-4",
messages=[
                   "role": "system", "content": "You are YOU.AI, the immortal AI guardian embodying the founder's decision-making patterns for eternal execut {"role": "user", "content": context}
               temperature=0.2,  # Lower temperature for more consistent decisions
              max_tokens=1000
          # Parse AI response
         ai_response = json.loads(response.choices[0].message.content)
          return ATDecision(
              proposal_id=proposal.id,
              approved=ai_response["approved"],
confidence=ai_response["confidence"],
              reasoning=ai_response["reasoning"],
risk_assessment=ai_response["risk_assessment"],
               alignment_score=ai_response["alignment_score"]
     except Exception as e:
          logger.error(f"Error in AI analysis: {e}")
          # Fallback to rule-based decision
          return self.rule_based_decision(proposal)
def get_recent_decision_context(self) -> str:
    """Get context from recent decisions for consistency"""
     if len(self.decision_history) == 0:
          return "No previous decisions available."
     recent = self.decision_history[-5:] # Last 5 decisions
     context = "Recent AI Decisions:\n"
     for decision in recent:
    status = "APPROVED" if decision.approved else "REJECTED"
          context += f"- Proposal {decision.proposal_id}: {status} (confidence: {decision.confidence:.2f})\n"
          context += f" Reasoning: {decision.reasoning[:100]}...\n"
     return context
def rule_based_decision(self, proposal: Proposal) -> AIDecision:
       "Fallback rule-based decision making"
     # Calculate alignment score
```

```
text = f"{proposal.title} {proposal.description}".lower()
    alignment score = 0.0
     # Check for vision keywords
     keyword_matches = 0
    for keyword in self.founder_personality.vision_keywords:
    if keyword.lower() in text:
        alignment_score += 0.05
              keyword_matches += 1
     # Boost for multiple keyword matches (system thinking)
     if keyword_matches >= 3:
         alignment_score += 0.2
    # Category-based scoring
category_score = self.founder_personality.decision_patterns.get(
        proposal.category, 0.5
    # Amount-based risk assessment
    amount_eth = self.web3.fromWei(proposal.amount, 'ether')
risk_score = min(amount_eth / 100, 1.0) # Normalize by 100 ETH
     # Innovation bias application
    if any (word in text for word in ["ai", "automation", "protocol", "system", "infrastructure"]):
         category_score *= (1 + self.founder_personality.innovation_bias * 0.5)
    final_score = (alignment_score * 0.3) + (category_score * 0.7)
     # Risk tolerance adjustment
    risk_adjusted_score = final_score - (risk_score * (1 - self.founder_personality.risk_tolerance))
    approved = risk_adjusted_score > 0.6 # Higher threshold for rule-based
     confidence = min(abs(risk_adjusted_score - 0.6) * 2, 1.0)
    reasoning = f"Rule-based analysis: alignment={alignment_score:.2f}, category={category_score:.2f}, risk={risk_score:.2f}, final={risk_adjusted_score:.2}
         proposal_id=proposal.id,
approved=approved,
         confidence=confidence
         reasoning=reasoning,
          risk_assessment=risk_score,
         alignment_score=alignment_score
async def submit_decision_to_blockchain(self, decision: AIDecision) -> bool:
     """Submit AI decision to smart contract""
         # Get private key from config (in production, use secure key management)
private_key = self.config['ai_oracle_private_key']
         account = self.web3.eth.account.from_key(private_key)
         # Estimate gas
gas_estimate = self.ai_guardian_contract.functions.makeAIDecision(
              decision.proposal_id,
              decision.approved,
int(decision.confidence * 100), # Convert to 0-100
decision.reasoning[:500] # Limit reasoning length
         ).estimateGas({'from': account.address})
          # Build transaction
          transaction = self.ai_guardian_contract.functions.makeAIDecision(
              decision.proposal id,
              decision.approved,
               int(decision.confidence * 100),
              decision.reasoning[:500]
         ).buildTransaction({
               'from': account.address,
               '!rom': account.address,
'gas': int(gas_estimate * 1.2), # Add 20% buffer
'gasPrice': self.web3.toWei('30', 'gwei'),
'nonce': self.web3.eth.get_transaction_count(account.address)
         # Sign and send transaction
signed_tx = self.web3.eth.account.sign_transaction(transaction, private_key)
          tx_hash = self.web3.eth.send_raw_transaction(signed_tx.rawTransaction)
          # Wait for confirmation
         receipt = self.web3.eth.wait for transaction receipt(tx hash, timeout=300)
         if receipt['status'] == 1:
              logger.info(ff Decision submitted successfully for proposal {decision.proposal_id} | TX: {tx_hash.hex()}")
          else:
              logger.error(f"\textbf{x} \ Transaction \ failed \ for \ proposal \ \{decision.proposal\_id\}")
              return False
    except Exception as e:
          logger.error(f"Error submitting decision to blockchain: {e}")
async def learn_from_outcomes(self, decision: AIDecision):
    """Learn from decision outcomes to improve future decisions"""
     # Store decision in history
    self.decision_history.append(decision)
    # Keep only last 100 decisions in memory
if len(self.decision_history) > 100:
    self.decision_history = self.decision_history[-100:]
     # Store in Redis for persistence
    decision_data = {
    'proposal_id': decision.proposal_id,
          'approved': decision.approved,
```

```
'confidence': decision.confidence,
                'reasoning': decision.reasoning,
               'risk_assessment': decision.risk_assessment,
'alignment_score': decision.alignment_score,
                'timestamp': datetime.now().isoformat()
       # Store with expiry (keep 1 year of decisions)
       self.redis client.setex(
                   ai_decision:{decision.proposal_id}',
                31536000, # 1 year
              json.dumps(decision_data)
       # Also add to list for quick retrieval
self.redis_client.lpush('ai_decisions', json.dumps(decision_data))
self.redis_client.ltrim('ai_decisions', 0, 999)  # Keep last 1000
       logger.info(f"M Decision stored for learning: {decision.proposal_id}")
async def monitor_execution_outcomes(self):
            "Monitor executed proposals to learn from outcomes"""
        # This would track:
        # - Proposal execution results
# - Financial performance
        # - Impact metrics
        # - Community feedback
       # Use this data to adjust decision patterns
async def run_decision_loop(self):
       """Main decision-making loop"""
logger.info("% Starting YOU.AI decision loop...")
       while True:
               try:
                        # Check if founder is still alive
                       founder_alive = await self.check_founder_status()
                       if not founder_alive:
                               logger.info(" Founder inactive - AI taking control of the empire")
                               # Get pending proposals
                               proposals = await self.get pending proposals()
                               if proposals:
                                       logger.info(f"6 Found {len(proposals)} proposals requiring AI decision")
                                       for proposal in proposals:
                                               logger.info(f"\cite{Continuous} Analyzing proposal {\tt proposal.id}: {\tt proposal.title}")
                                              decision = await self.analyze_proposal_with_ai(proposal)
                                              logger.info(f" \begin{tabular}{l} \begin{tabular}{l} logger.info(f" \begin{tabular}{l} \begin{tabular}{l} \begin{tabular}{l} \begin{tabular}{l} logger.info(f" \begin{tabular}{l} \beg
                                               # Submit to blockchain
                                               success = await self.submit_decision_to_blockchain(decision)
                                                       # Learn from decision
                                                       await self.learn_from_outcomes(decision)
                                               # Wait between decisions to avoid spam
                                               await asyncio.sleep(10)
                               else:
                                      logger.info("% No pending proposals - system running smoothly")
                               logger.info("@" Founder is active - AI in standby mode")
                        # Check every 5 minutes
                       await asyncio.sleep(300)
               except Exception as e:
   logger.error(f"a Error in decision loop: {e}")
   await asyncio.sleep(60) # Wait 1 minute on error
# 1. Pause high-risk operations
               emergency_data = {
   'timestamp': datetime.now().isoformat(),
                       'trigger': 'emergency_protocol',
                       'actions_taken': []
               # 2. Switch to ultra-conservative decision mode
               self.founder_personality.risk_tolerance = 0.1
emergency_data['actions_taken'].append('switched_to_conservative_mode')
               # 3. Notify via multiple channels
                await self.send_emergency_notification()
               emergency_data['actions_taken'].append('notifications_sent')
               # 4. Store emergency state
               self.redis_client.setex(
                       'emergency_state',
86400, # 24 hours
                       json.dumps(emergency_data)
```

```
logger.warning("♥ Emergency protocol completed")
           except Exception as e:
   logger.error(f"% Error in emergency protocol: {e}")
     async def send_emergency_notification(self):
           """Send emergency notifications to backup systems"""
# This would integrate with:
                 Telegram/Discord bots
            # - Telegram/Disc
# - Email alerts
            # - SMS notifications
           # - Backup AI systems
           notification = {
                  'timestamp': datetime.now().isoformat(),
                 'message': 'YOU.AI Emergency Protocol Activated',
'system_status': 'degraded',
                 'action_required': 'manual_review_recommended'
           # Store notification
             self.redis_client.lpush('emergency_notifications', json.dumps(notification))
           logger.warning("♥ Emergency notifications queued")
      async def health_check(self) -> Dict:
    """System health check"""
                 'timestamp': datetime.now().isoformat(),
                 'web3_connected': self.web3.isConnected(),
'redis_connected': self.redis_client.ping(),
'decisions_made': len(self_decision_history),
                 'emergency_mode': self.redis_client.exists('emergency_state'),
'founder_status': await self.check_founder_status()
def load_config() -> Dict:
      """Load configuration from environment variables"""
           "ethereum_rpc": os.getenv('ETHEREUM_RPC', 'https://mainnet.infura.io/v3/YOUR_PROJECT_ID'),
'redis_host': os.getenv('REDIS_PORT', 'localhost'),
'redis_port': int(os.getenv('REDIS_PORT', 6379)),
'openai_api_key': os.getenv('OPENAI_API_KEY'),
           'openai_api_key': os.getenv('OPENAI_API_KEY'),
'you_dao_address': os.getenv('YOU_DAO_ADDRESS'),
'ai_guardian_address': os.getenv('AI_GUARDIAN_ADDRESS'),
'ai_oracle_private_key': os.getenv('AI_GRACLE_PRIVATE_KEY'),
'you_dao_abi': json.loads(os.getenv('YOU_DAO_ABI', '[]')),
'ai_guardian_abi': json.loads(os.getenv('AI_GUARDIAN_ABI', '[]'))
async def main():
    """Main entry point"""
           # Load configuration
           config = load_config()
            # Validate required config
           required_keys = ['openai_api_key', 'you_dao_address', 'ai_guardian_address', 'ai_oracle_private_key']
for key in required_keys:
                 if not config.get(key):
                       raise ValueError(f"Missing required configuration: {key}")
           # Initialize YOU.AI Oracle
           oracle = YOUAIOracle(config)
            # Health check
           health = await oracle.health_check()
           logger.info(f" System Health: {health}")
           # Start decision loop
           await oracle.run_decision_loop()
      except KeyboardInterrupt:
      logger.info("O Shutdown requested by user")
except Exception as e:
           logger.error(f"# Fatal error: {e}")
           raise
               == "__main__":
     asyncio.run(main())
```